

**( Core Java - Functions)**

1. WAP to sort a array in ascending order and return it
2. WAP to return an even array from the given array from a function
- 3.WAP to return a binary array for the passed decimal array from a function
- 4.WAP to return a decimal array for the passed binary array from a function
- 5.WAP to get sum of a matrix elements from a function
- 6.WAP to get the sum of two matrices from a function
- 7.WAP to get a transpose of matrix from a function for the passed matrix
8. WAP to get the principal diagonal elements in array from a function for the passed matrix
- 9.WAP to find the factorial of a number.(using recursion fun.)
- 10.WAP to find n Fibonacci number.(using recursion fun.)
- 11.WAP to find sum of following equation. (using recursion fun.)  
$$1+2+3+4+5+6+\dots n.$$
- 12.WAP to find sum of following equation. (using recursion fun.)  
$$1/1^2+2/2^2+3/3^2+4/4^2+5/5^2+\dots$$
- 13.WAP to find the sum of following equation. (using recursion fun.)  
$$1/1+1/2+1/3+1/4+1/5+\dots$$
- 14.WAP to find th sum of following equation. (using recursion fun.)  
$$1/(x+1)+1/(x+2)+\dots+1/(x+n)$$
- 15.WAP to find GCD of two numbers. (using recursion fun.)

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